Approved For Release 2002/08/28 : CIA-RDP63-00313A000600120018-4

NRO REVIEW COMPLETED

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6 February 1959

NEWORANDUM FOR THE RECORD

SUBJECT: Trip Report - Program Review Conference WS 117-L and COROMA

- 1. A briefing concerning the above-mentioned programs was held at Pale Alto on 23 January 1959. In addition, the 22nd of January was spent coordinating and discussing COROMA problems with It. Col. Mathemon, Chief of the Pale Alto Control Center.
- 2. The highlights of the items presented at the briefing are as follows:
 - a. Schedule of COBONA shots: Because of a rather serious malfunction while attempting to launch the first test vehicle on 21 January, the ability to meet the present Launch schedule was seriously doubted. The exact nature, causes and results of this malfunction were not known at this time. However, following is a brief impression of what happened. The countdown had reached launch minus 60 minutes when the malfunction occurred. At this time the hydraulic system in the Bell Hustler was being tested. When electrical power was applied to this system, several events took place that were supposed to occur in the air, but not during ground test. The Ullage rockets fired, and the explosive bolts that separate the Hustler from the Thor also fired. Fortunately, the Hastler sits in a farring that is attached to the Thor so the Hustler did not fall to the ground. However, the firing of the Ullego rodcot did cause some damage. At this time the countdown was stopped. A proposed revision to the present schedule was discussed. The proposed schedule would result in the first CORONA launching occurring in May 1959. The proposed schedule was not firmed up.

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This decume information referring to Approved For Release 2002/08/28:

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a balloon drop of the mose come is proposed at Hellison AFB, How Macico. The test will consist of dropping the ness come from 100,000 fest with an air smatch recovery planned. As discussed below, aircraft dropped recovery tests are being performed in the Hemmilian grea-

a. Recovery Vehicle Progress: Several items of interest were brought out in the briefing on the recovery system. The first was that the mode 3 parachate has been selected as the ciuse to be used in the recovery system. The mode 3 chute has a diameter of 20.5 feet and a descent rate of 25 feet per second. These chuter are in production and have been tested. This fact was not disquested at the briefing, but it was learned later from Col. Batheson that three drops had been made in the Hammilian area from a 3-47 aircraft, using the mode3 chute. The of the drops were recovered by air santah. The third was a water recovery. Because of a beason malfunction on the name come, the aircraft was not able to locate the third unit. However, surface ship rader did point the come and a water recovery was made. Additional B-47 Grops are planned in the Hammilian area.

Another item of interest in competion with the recovery system to that GE feels they have solved the preschate ejection problem by redesign of the system. Another item discussed was the problem by redesign of the some come during re-entry became it was originally designed for a film load of 40 pounds and this has been reduced to a half load, or 20 pounds. Of indicated that apprecimately 3 pounds will be required for ballant. Since the ballant will have to be loosted near the nose, the addition of more film will not solve the problem. It is planned to use an instrument package for ballant.

- d. From Communica Intimates: The briefing on power supply we. power communication indicates that there is adequate power for 24 hours, but not enough for a two day time in orbit. This is princilly true because 70% of the required power last is estimated to be last. Also considerable power is required on passive orbits (camera not operating) to keep the satellite stabilized. The watthours satisfied and required are shown in attackment file.
- e. <u>Compound</u>. <u>Parts Schedules</u>: Noch time was spent in conmideration of the present delivery schedules of the component parts. Without going into detail, it appears that the schedules are very

tight and some elippage could occur. The program is so integrated that a slippage in any place would probably cause a slip in the proposed launch schedule. The details of those schedules are contained in the photostatic copy of the briefing side which is an attachment to this report.

2. Comma Resident and Film Sandling Property After the property a separate report that will cover these two subjects.

3. The items discussed outside the bristing are as follows:

- at the Pale Alto Control Center experienced any difficulty with the Command Post Emercian conducted between Project Headquarters and Heller during the week 19 through 23 January. Homegon ware passed both by phone and courier between Heller and Pale Alto. In connection with this, Headquarters plans to conduct a CPX approximately every three weeks.
- b. Communications at Pale Alto Control Conter: The decision was made by not to establish a communications easter at Pale Alto in view of the security problems involved.
- d. Committeel Flamming Factors: Several planning factors were discussed that are of operational interest. One of these is the film supply annihile which will be covered in report. Another is that if the launch is stopped after faciling has started,

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a 48 hour delay is required before another attempt at lawneh. This presents a serious limitation since the countdown for the present vehicle calls for some fueling at launch minus 5 hours. Undoubtedly this will be reduced in later launches. Also, the present schedule for Launch asignth calls for CORONA units to be launched on a true

> C. L. WEPEY Hajor USAF

Att: Chart

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2 - Dep Dir, DPD 3 - Admin, DPD

4 - Cover, DPD

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